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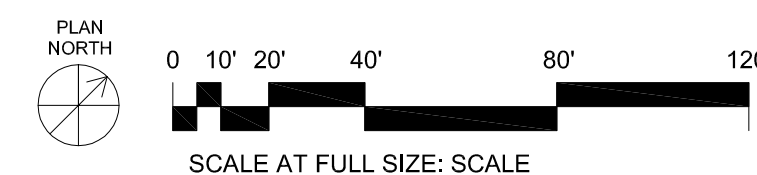


<u>EXISTING</u>		<u>NEW</u>
E(OP) _____	OVERHEAD PRIMARY	_____ OP _____
E(UP) _____	UNDERGROUND PRIMARY	_____ UP _____
E(OS) _____	OVERHEAD SECONDARY	_____ OS _____
E(US) _____	UNDERGROUND SECONDARY	_____ US _____
E(OC) _____	OVERHEAD COMMUNICATIONS	_____ OC _____
E(UC) _____	UNDERGROUND COMMUNICATIONS	_____ UC _____
E(UT) _____	UNDERGROUND CABLE TV	_____ UT _____
<p>_____</p> <p>NATURAL GAS</p>		
	POLE MOUNTED TRANSFORMER	
	PAD MOUNT TRANSFORMER	
 EEH	ELECTRICAL HANDHOLE	 EH
 ECH	COMMUNICATIONS HANDHOLE	 CH
 EMH	PRIMARY ELECTRIC MANHOLE	 MH
 ECP	COMMUNICATIONS PEDESTAL	 CP

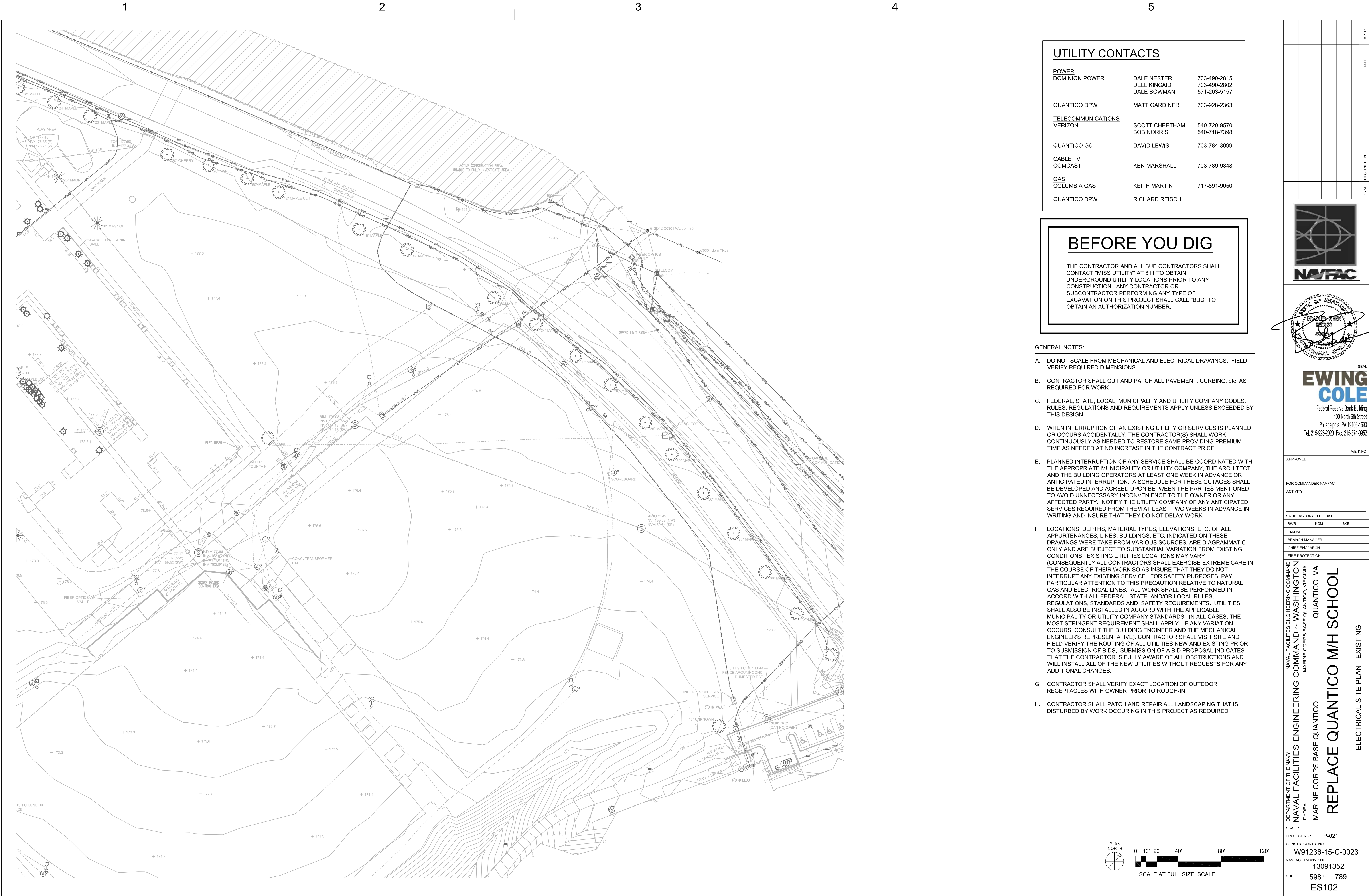
POWER		
DOMINION POWER	DALE NESTER	703-490-2815
	DELL KINCAID	703-490-2802
	DALE BOWMAN	571-203-5157
QUANTICO DPW	MATT GARDINER	703-928-2363
<u>TELECOMMUNICATIONS</u>		
VERIZON	SCOTT CHEETHAM	540-720-9570
	BOB NORRIS	540-718-7398
QUANTICO G6	DAVID LEWIS	703-784-3099
<u>CABLE TV</u>		
COMCAST	KEN MARSHALL	703-789-9348
<u>GAS</u>		
COLUMBIA GAS	KEITH MARTIN	717-891-9050
QUANTICO DPW	RICHARD REISCH	

THE CONTRACTOR AND ALL SUB CONTRACTORS SHALL CONTACT "MISS UTILITY" AT 811 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

- B. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
- B. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, etc. AS REQUIRED FOR WORK.
- C. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- D. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
- E. PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST ONE WEEK IN ADVANCE OR ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
- F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKE FROM VARIOUS SOURCES, ARE DIAGRAMMATIC AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.
- G. CONTRACTOR SHALL VERIFY EXACT LOCATION OF OUTDOOR RECEPTACLES WITH OWNER PRIOR TO ROUGH-IN.
- H. CONTRACTOR SHALL PATCH AND REPAIR ALL LANDSCAPING THAT IS DISTURBED BY WORK OCCURRING IN THIS PROJECT AS REQUIRED.

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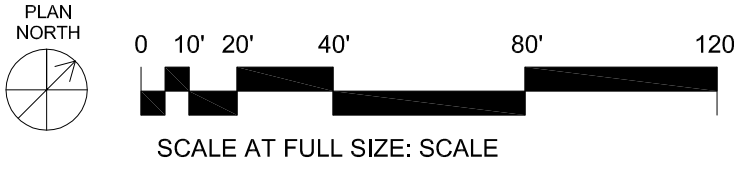


UTILITY CONTACTS			
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		DELL KINCAID	703-490-2802
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### BEFORE YOU DIG

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APPR

DATE

SYN

DESCRIPTION

SEAL

**EWING COLE**

Federal Reserve Bank Building  
100 North 6th Street  
Philadelphia, PA 19106-1590  
Tel: 215-923-2020 Fax: 215-574-0952

A/E INFO

APPROVED

FOR COMMANDER NAVFAC ACTIVITY

SATISFACTORY TO DATE

BWR KCM BKB

PMCM

BRANCH MANAGER

CHIEF ENG/ ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON DODEA  
MARINE CORPS BASE QUANTICO, VIRGINIA

QUANTICO, VA

**REPLACE QUANTICO M/H SCHOOL**

ELECTRICAL SITE PLAN - EXISTING

PROJECT NO.: P-021

CONSTR. CONTR. NO. W91236-15-C-0023

NAVFAC DRAWING NO. 13091352

SHEET 598 OF 789

ES102

DRAWFORM REVISION: 10 MARCH 2009



D

C

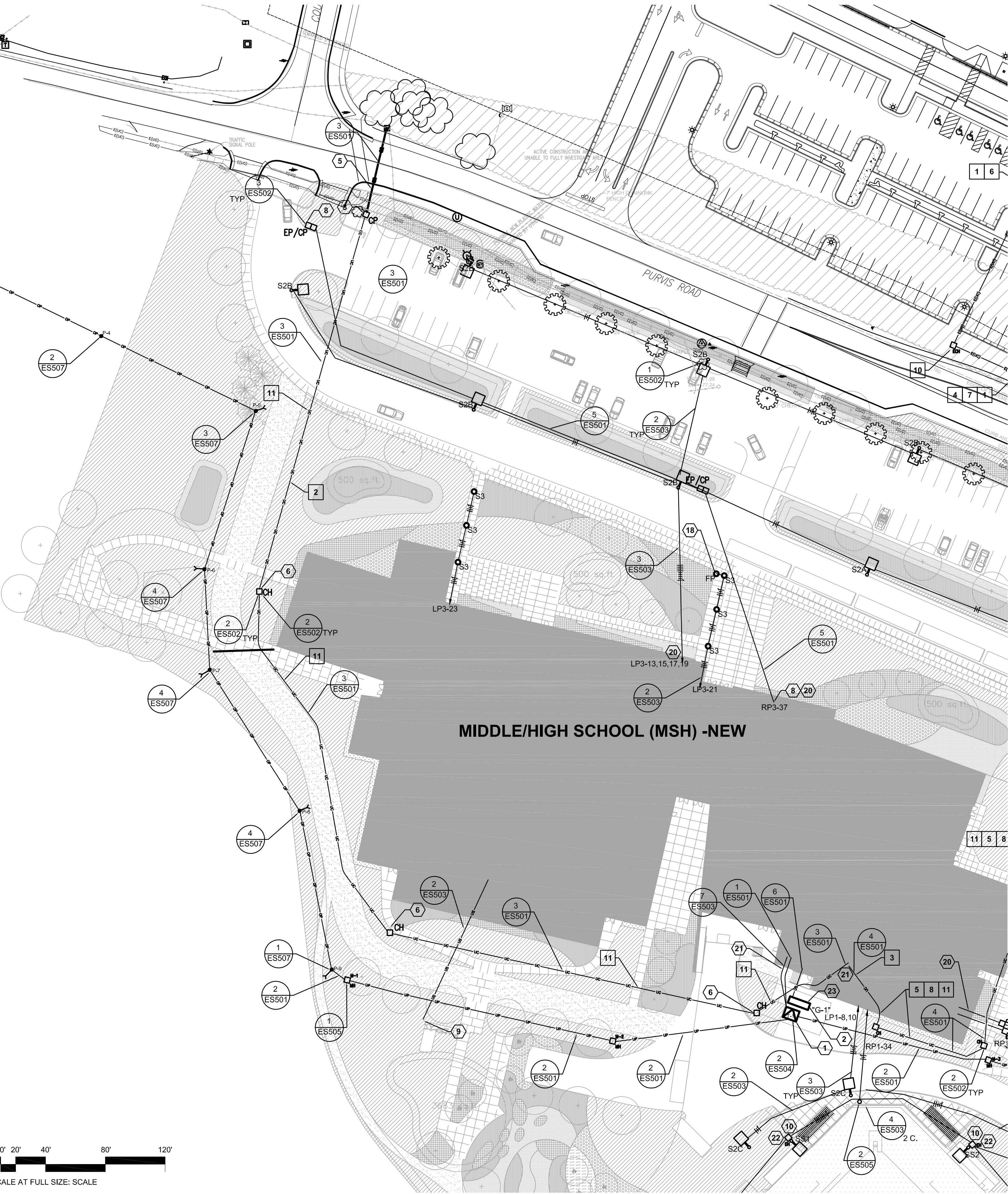
B

A

- 16. POWER CONNECTION TO PRESSBOX. COORDINATE CONNECTIONS WITH PRESSBOX MANUFACTURER.
- 17. COMBINATION POWER AND COMMUNICATIONS DUCTBANK FOR FIELDHOUSE.
- 18. INTEGRALLY LIT FLAGPOLE.
- 19. POWER AND COMMUNICATIONS CONNECTION TO SCOREBOARD. PROVIDE A PAIR OF SHIELDED, 22 AWG CONTROL WIRING FROM SCOREBOARD TO SCOREBOARD CONTROLLER IN PRESSBOX. PROVIDE 2#10, #10G FROM PRESSBOX PANELBOARD (PROVIDED WITH PRESSBOX) AND TERMINATE IN A 20A/1P BREAKER. COORDINATE FINAL CONNECTIONS INTO SCOREBOARD WITH MANUFACTURER. SEAL PENETRATIONS INTO PRESSBOX PER MANUFACTURERS RECOMMENDATIONS.
- 20. CONDUIT(S) SHALL PASS THROUGH FOUNDATION WALL.
- 21. CONDUIT(S) SHALL PASS UNDER FOUNDATION WALL.
- 22. LOCATE HANDHOLE 10' FROM BASE.
- 23. REFER TO SHEET MS101 FOR ADDITIONAL MECHANICAL EQUIPMENT IN MECHANICAL YARD. DO NOT ROUTE ELECTRICAL CONDUITS UNDER MECHANICAL EQUIPMENT.

COMMUNICATIONS CABLING TAGGED NOTES

- 1. EXTEND 2-12 STRAND SINGLE-MODE FIBER OPTIC CABLE (FOR DODEA LAN CONNECTIVITY FROM MIDDLE/HIGH SCHOOL TO EXISTING CROSSROADS ELEMENTARY).
- 2. COMCAST SERVICE ENTRANCE CABLE SHALL BE PULLED BY COMCAST.
- 3. TERMINATE ALL FIBER OPTIC CABLING WITHIN TR1 IN A WALL MOUNTED PATCH PANEL. EACH 12 STRAND FIBER (TOTAL OF 3) SHALL TERMINATE IN A SEPARATE 12 PORT PATCH PANEL AND SHALL BE LABELED AS FOLLOWS: "12 STRAND FIBER OPTIC CABLE TO CROSSROADS ELEMENTARY FOR DODEA LAN"; "12 STRAND FIBER OPTIC CABLE TO BURROWS ELEMENTARY FOR DODEA LAN"; "12 STRAND FIBER OPTIC CABLE FROM CROSSROADS ELEMENTARY FOR INTERNET SERVICE".
- 4. EXTEND 1-12 STRAND SINGLE-MODE FIBER OPTIC CABLE (FOR DODEA LAN CONNECTIVITY FROM MIDDLE/HIGH SCHOOL TO EXISTING BURROWS ELEMENTARY). BURROWS ELEMENTARY SCHOOL IS LOCATED ON JOHN QUICK ROAD. G6 SHALL SPLICE INTO EXISTING 72 STRAND FIBERS FROM THE EXISTING MANHOLE BACK TO JOHN QUICK ROAD TO ALL FOR FIBER SERVICE FROM MIDDLE/HIGH SCHOOL TO BURROWS ELEMENTARY.
- 5. 3-12 STRAND SINGLE-MODE FIBER OPTIC CABLES (REFER TO COMMUNICATION CABLING TAGGED NOTES 1 THRU 4).
- 6. EXTEND FIBER OPTIC CABLING IN SPARE 4" CONDUIT. PROVIDE 6 CELL FABRIC MESH WITHIN EXISTING CONDUIT.
- 7. EXTEND FIBER OPTIC CABLING IN SPARE FABRIC MESH (IN SPARE 4" CONDUIT).
- 8. EXTEND FIBER OPTIC CABLING IN FABRIC MESH (IN 4" CONDUIT).
- 9. TERMINATE ALL FIBER OPTIC CABLING WITHIN MDF IN A WALL MOUNTED PATCH PANEL. EACH 12 STRAND FIBER (TOTAL OF 2) SHALL TERMINATE IN A SEPARATE 12 PORT PATCH PANEL AND SHALL BE LABELED AS FOLLOWS: "12 STRAND FIBER OPTIC CABLE FROM MIDDLE/HIGH SCHOOL FOR DODEA LAN"; "12 STRAND FIBER OPTIC CABLE TO MIDDLE/HIGH SCHOOL FOR INTERNET SERVICE".
- 10. SPLICE FOR 12 STRAND FIBER BY G6.
- 11. 50 PAIR COPPER CABLE FOR TELEPHONE SERVICE.
- 12. SPLICE FOR 50 PAIR COPPER CABLE BY G6.
- 13. SPLICE EXISTING VERIZON DIRECT BURIED COPPER TELEPHONE LINES (1-100 PR AND 1-200 PR) IN A NEW COMMUNICATIONS HANDHOLE AND EXTEND A NEW 100 AND A NEW 200 PAIR COPPER, PE89, DIRECT BURIED COPPER TELEPHONE LINES BETWEEN HANDHOLES.



GENERAL NOTES:

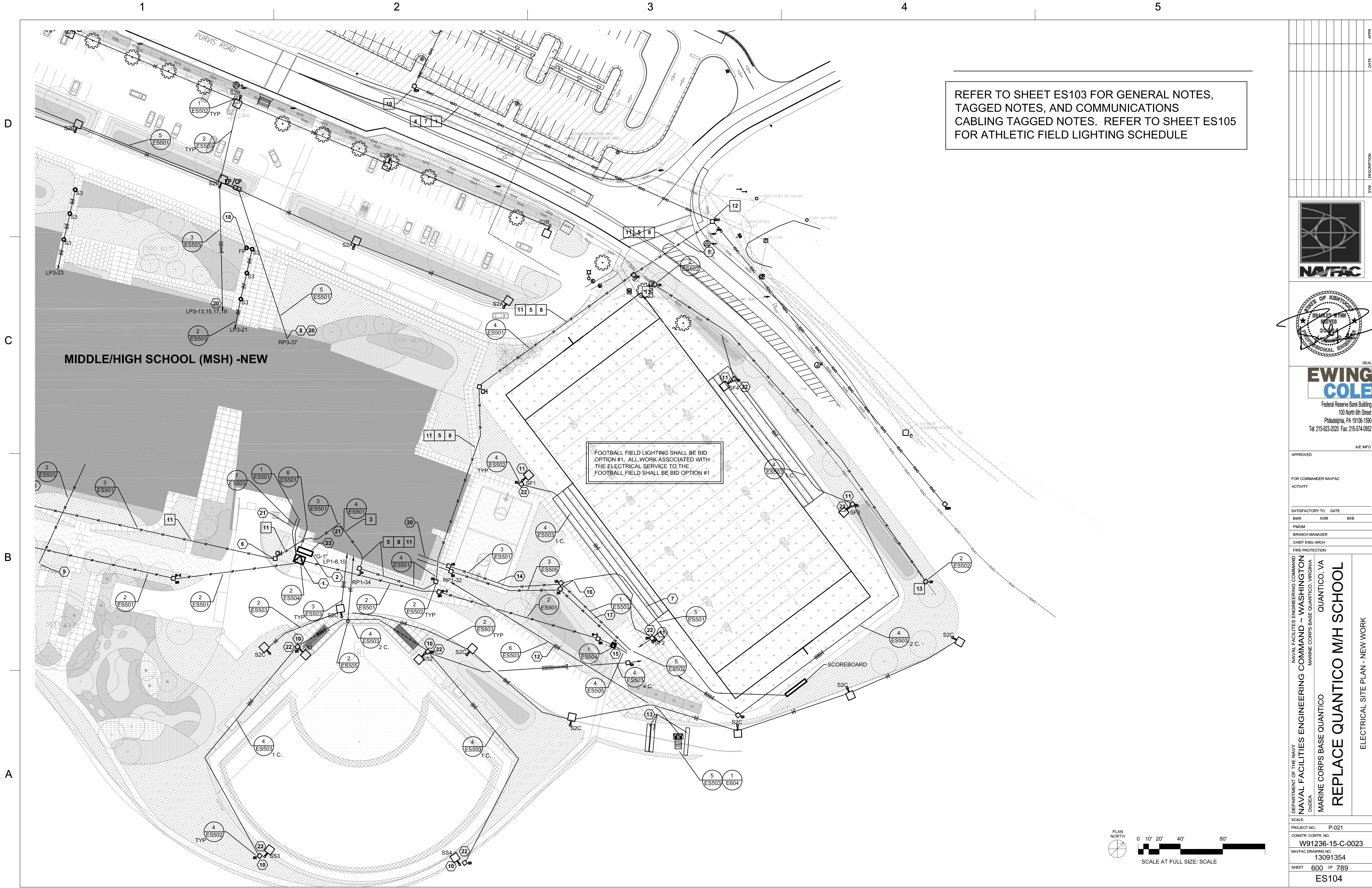
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- G. CONTRACTOR SHALL PATCH AND REPAIR ALL LANDSCAPING THAT IS DISTURBED BY WORK OCCURING IN THIS PROJECT AS REQUIRED.
- H. REFER TO TYPICAL POLE CONSTRUCTION DETAILS ON SHEET ES507 FOR ADDITIONAL INFORMATION.
- I. NAVFAC WASH UTILITIES SHALL REVIEW AND APPROVE ALL SUBMITTALS RELATING TO THE CONNECTION OF THE NEW POLE TO THE EXISTING MEDIUM VOLTAGE DISTRIBUTION SYSTEM. NO WORK SHALL OCCUR UNTIL THIS REVIEW HAS BEEN COMPLETED.
- J. REFER TO SHEET S118 FOR ADDITIONAL INFORMATION FOR UNDERGROUND CONDUIT PLACEMENT ABOVE AND BELOW FOOTINGS IN AREA F FOR FEEDER AND COMMUNICATIONS CONDUITS.

TAGGED NOTES

- 1. PADMOUNT TRANSFORMER T-1 FOR MAIN BUILDING. SET TRANSFORMER ON CONCRETE PAD, REFER TO DETAILS ON SHEET S501 FOR ADDITIONAL INFORMATION FOR EQUIPMENT MOUNTING. COORDINATE CONDUIT ENTREES WITH CONCRETE POUR.
- 2. GENSET G-1 FOR FIRE PUMP. SET GENSET ON CONCRETE PAD. REFER TO DETAILS ON SHEET S501 FOR ADDITIONAL INFORMATION FOR EQUIPMENT MOUNTING. COORDINATE CONDUIT ENTREES WITH CONCRETE POUR.
- 3. COMCAST PEDESTAL.
- 4. EXTEND 2#10, #10G IN 1" CONDUIT TO 20A/1P BREAKER IN MINI-POWER ZONE PANELBOARD.
- 5. DIRECTIONALLY BORE UNDER PURVIS ROAD. TRANSITION CONDUIT TO RIGI D GALVANIZED STEEL.
- 6. HANDHOLE (BY CONTRACTOR) FOR COMCAST SERVICE.
- 7. POWER AND COMMUNICATIONS CONNECTION TO SCOREBOARD. PROVIDE A PAIR OF SHIELDED, 22 AWG CONTROL WIRING FROM SCOREBOARD TO SCOREBOARD CONTROLLER IN PRESSBOX. PROVIDE 2#10, #10G FROM PRESSBOX PANELBOARD (PROVIDED WITH PRESSBOX) AND TERMINATE IN A 20A/1P BREAKER. COORDINATE FINAL CONNECTIONS INTO SCOREBOARD WITH MANUFACTURER. SEAL PENETRATIONS INTO PRESSBOX PER MANUFACTURERS RECOMMENDATIONS.
- 8. POWER AND COMMUNICATIONS SERVICE TO MARQUIS SIGN. EXTEND CONDUITS WITH POWER AND FIBER OPTIC CABLING (FIBER PER MANUFACTURERS RECOMMENDATIONS) INTO MARQUIS SIGN AS REQUIRED. TERMINATE CONDUITS WITH FIBER OPTIC CABLING IN CONTROLLER IN TR1 AS REQUIRED. EXTEND WIRING FOR TR1 TO CLERICAL 1A03, MARQUIS TO BE CONTROLLED FROM CLERICAL TO 1A03.
- 9. 1 1/2" PVC CONDUIT WITH PULL STRING FOR FUTURE POWER TO GREEN HOUSE. CONDUITS SHALL BE CAPPED 10' BEYOND FOOTPRINT OF GREENHOUSE AND SHALL BE PROVIDED WITH UTILITY MARKERS. STUB CONDUIT INTO MECH 1D13, INTO PANEL RP9.
- 10. 70' SPORTS FIELD LIGHTING POLE.
- 11. 100' SPORTS FIELD LIGHTING POLE.
- 12. EXTEND POWER TO MOTORIZED GATE. EXTEND CONTROL WIRING FROM VIDEO INTERCOM/CAMERA TO VIDEO INTERCOM MAIN CONTROLLER IN TR1. EXTEND WIRING FROM PROXIMITY READER TO ACCESS CONTROL HEAD END PANEL IN TR1. THE GOOSENECK SHALL BE DUAL HEIGHT, WITH INTERCOM/CAMERA AND PROXIMITY READER AT BOTH LEVELS.
- 13. UNDERGROUND LOOPS FOR AUTOMATIC OPERATION OF SECURITY GATE. ONE LOOP ("ENTER CLOSE")SHALL LOWER GATE AFTER INGRESS VEHICLES CLEAR GATE, ONE LOOP ("EXIT OPEN") SHALL RAISE GATE AS EGRESS VEHICLE APPROACHES GATE, AND ONE LOOP ("EXIT CLOSE") SHALL LOWER GATE AFTER EGRESS VEHICLE CLEARS GATE. REFER TO SHEET L518 FOR DIMENSIONING AND ADDITIONAL INFORMATION. COORDINATE EXACT LOOP PLACEMENT AND WIRING WITH APPROVED PRODUCT SUBMITTALS.
- 14. COMMUNICATIONS DUCTBANK FOR DATA SERVICE TO PRESSBOX. EXTEND FROM TR1 TO ROOM IN SCHOOL TO PRESSBOX (COORDINATE PENETRATIONS IN PRESSBOX WITH MANUFACTURER).
- 15. PADMOUNT TRANSFORMER T-2 FOR ATHLETIC FIELDS.

APPR.	DATE	SYN	DESCRIPTION
Federal Reserve Bank Building 100 North 6th Street Philadelphia, PA 19106-1590 Tel: 215-923-2020 Fax: 215-574-0952			
A/E INFO			
APPROVED			
FOR COMMANDER NAVFAC ACTIVITY			
SATISFACTORY TO DATE			
BWR	KCM	BKB	
PWDM			
BRANCH MANAGER			
CHIEF ENR/ ARCH			
FIRE PROTECTION			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND DODEA MARINE CORPS BASE QUANTICO, VIRGINIA QUANTICO, VA			
REPLACE QUANTICO M/H SCHOOL			
ELECTRICAL SITE PLAN - NEW WORK			
SCALE: PROJECT NO: P-021 CONSTR. CONTR. NO: NAVFAC DRAWING NO: 13091353 SHEET 599 OF 789 ES103			
DRAWN/FORM REVISION: 10 MARCH 2009			

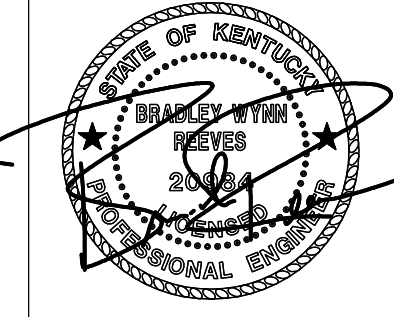
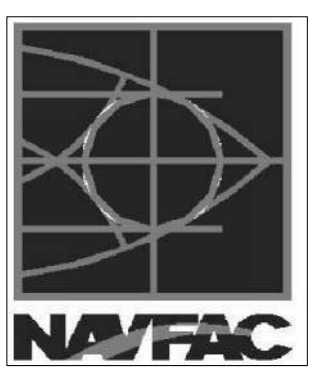




REFER TO SHEET ES103 FOR GENERAL NOTES,  
TAGGED NOTES, AND COMMUNICATIONS  
CABLING TAGGED NOTES. REFER TO SHEET ES105  
FOR ATHLETIC FIELD LIGHTING SCHEDULE

FOOTBALL FIELD LIGHTING SHALL BE BID  
OPTION #1. ALL WORK ASSOCIATED WITH  
THE ELECTRICAL SERVICE TO THE  
FOOTBALL FIELD SHALL BE BID OPTION #1

APPROVED	DATE	APPR
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO	DATE	
BWR	KCM	BKB
PMDCM		
BRANCH MANAGER		
CHIEF ENG/ ARCH		
FIRE PROTECTION		
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
DDEA	NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON	NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
MARINE CORPS BASE QUANTICO	MARINE CORPS BASE QUANTICO	MARINE CORPS BASE QUANTICO
QUANTICO, VA	QUANTICO, VA	QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL	REPLACE QUANTICO M/H SCHOOL	REPLACE QUANTICO M/H SCHOOL
ELECTRICAL SITE PLAN - NEW WORK	ELECTRICAL SITE PLAN - NEW WORK	ELECTRICAL SITE PLAN - NEW WORK
PROJECT NO:	P-021	
CONSTR. CONTR. NO.	W91236-15-C-0023	
NAVFAC DRAWING NO.	13091354	
SHEET	600 OF 789	
ES104		
DRAWING REVISION:	10 MARCH 2009	



**EWING COLE**  
Federal Reserve Bank Building  
100 North 6th Street  
Philadelphia, PA 19106-1580  
Tel: 215-923-2020 Fax: 215-574-0952

A/E INFO

